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20.11.1998 JP 33064698(71) Applicant:
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(54) Discharge lamp

(57) A discharge lamp comprising an arc tube containing a pair of electrodes in a light-emitting portion and an outer tube that envelopes the light-emitting portion and is at least partly fused to the arc tube, wherein the outer tube comprises silicon dioxide in the range from 90 to 99.88 wt. % and boron in the range from 0.12 wt. % or more. The discharge lamp can inhibit the arc tube from deforming when the outer tube and arc tube are fused to each other by adjusting a softening temperature of the outer tube to an appropriate temperature and can realize a high accuracy of luminous intensity distribution.

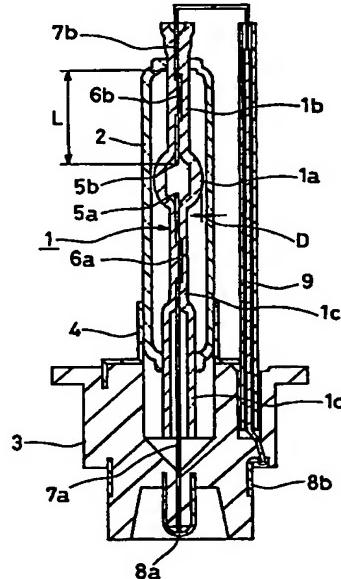


FIG. 1



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			EP 99110857-2 CLASSIFICATION OF THE APPLICATION (Int. Cl. 6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	<u>US 5159239 A</u> (EKKELBOOM ET AL.) 27 October 1992, column 8, lines 8-32. Column 8, lines 8-32.	1, 2, 5- 7, 10, 14, 16	C03C3/091 H01J61/34
A	--	3, 4, 8, 9, 11- 13, 15, 17, 18	
X	<u>EP 0616358 A</u> (OSRAM SYLVANIA INC.) 21 September 1994, page 3, lines 22-35.	1, 2, 6, 7, 10, 15, 16	
X	<u>EP 0601391 A</u> (PATENT-TREUHAND-GESELLSCHAFT F.E. GLÜHLAMPEN MBH) 15 June 1994, column 2, line 47 - column 3, line 10. --	1, 2, 5	
X	<u>US 5391523 A</u> (MARLOR, R.C.) 21 February 1995, column 5, lines 26-34. ----	1, 2, 6	TECHNICAL FIELDS SEARCHED (Int. Cl. 6) H01J C03C
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
VIENNA	13-12-1999	SCHLECHTER	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO. EP 99110857.2**

This annex lists the patent family members relating to the patent documents cited in the above-mentioned search report.
The numbers are as contained in the EPIDOS INFODOC file on 16.12.1991.
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For more details about this annex see Official Journal of the European Patent Office, No. 12/82.